DEPARTMENT OF NATURAL RESOURCES/ JEFFERSON COUNTY ENVIRONMENTAL CHECKLIST

1. **Name of proposed project, if applicable:**

   Cays Road Pit

2. **Name of applicant:**

   Fred Hill Materials, Inc.

3. **Address and phone number of applicant and contact person:**

   Martin Blevins
   Environmental Compliance Manager
   Fred Hill Materials, Inc.
   P.O. Box 6
   Poulsbo, WA 98370
   (360) 779-4431, Ext. 139

   Contacts:
   Mark Kuhlman
   Team 4 Engineering
   5819 NE Minder Rd
   Poulsbo, WA 98370
   (360) 297-5560

4. **Date checklist prepared:**

   February 2, 2004

5. **Agency requesting checklist:**

   Department of Natural Resources

6. **Proposed timing or schedule (including phasing, if applicable):**

   2004-2011.
   See Reclamation Sequence Map for mining segment scheduling and reclamation phasing. Mining is broken into 8 segments (4-14 acres) with progressive, segmental reclamation to be completed in an accelerated manner. The majority of the site has previously been mined to completion.

7. **Do you have any plans for future additions, expansions, or further activity related to or connected with this proposal?**

No. Mining is almost complete at the site. A portion of the site will continue to be used for the existing concrete batch plant and trucking operations.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal:**

Environmental Checklist prepared for Blake Sand and Gravel, Inc., May 1995, for the Department of Natural Resources.

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

None known.

10. **List any government approvals or permits that will be needed for your proposal, if known:**

DNR: SM-6, SM-8A,
Washington State Department of Ecology: revised Sand and Gravel General Permit

11. **Give brief, complete description of your proposal, including the proposed uses and the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)**

The Cays Road Pit is an existing sand and gravel mine located approximately 4.5 miles northwest of Sequim, Washington. The permit area is 57.0 acres and a new depth of 110 ft. No additional area will be disturbed; revised plan describes how reclamation will meet 1993 standards. Approximately 48 acres will be mined during its life. The mine is almost depleted and required reclamation activities are still being completed. There is also an existing concrete batch plant on site that will remain after reclamation is complete. The batch plant was originally constructed in approximately 1970 and portions of the plant were upgraded and/or replaced in 1992.

12. **Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.**

The permit area is located in portions of the following quarter quarters:
NE ¼, NE ¼, Section 3, Township 30 North, Range 4 West,
SE ¼, SE ¼, Section 34, Township 31 North, Range 4 West,
W.M., Jefferson County, Washington.

ENVIRONMENTAL ELEMENTS

To be Completed by Applicant

13. **Earth**

a. **General description of the site (Bold): Flat, rolling**, hilly, **steep slopes**, mountainous, other: **rocky, sandy** & wet

b. **What is the steepest slope on the site (approximate percent slope)?**

Within the permit area the steepest slope is approximately 1 Horizontal : 1 Vertical. The steepest slope in the active mining area after reclamation will be approximately 1.5:1. (See attached Reclamation maps and narrative). Average slopes are on the order of 20%.

c. **What general types of soils are found on the site (for example, clay, sand gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.**

According to the SCS Soil Survey for Clallam County, soils within the mining permit area are Hoypus gravelly sandy loam and Pit.

The soils on site are similar to those listed in the Soil Survey. No prime farmland soils are present within the permit boundary. Large quantities of gravel are present and the predominant soil is sand.

d. **Are there surface indicators or history of unstable soils in the immediate vicinity? If so, describe.**

No.

e. **Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Native material will be utilized to reclaim mine slopes. Mine activities cut up to 110 feet from original grade. Along the mine perimeter, some backfill will be required to create slopes varying from 1.5:1 to 4:1. The site may accept clean, organic-free, inert fill to create larger pads for future residential development. Approximately 500,000 –1,000,000 cubic yards of on-site fill will be placed.

f. **Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Yes, some erosion could occur if significant rain falls during the active excavation at the site. The predominantly coarse soils promote infiltration although runoff may occur during peak rainfall events. There are significant amounts of soil exposed during mining. See Temporary Erosion Control measures below to mitigate any erosion.

g. **About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

Approximately 3% of the site will be covered with impervious surfaces. Impervious surfaces include maintenance buildings, on-site access roads, scale and scale-house, concrete batch plant, and associated parking.

h. **Proposed measures to reduce or control erosion, or other impact to the earth, if any:**

The site has been permitted by the Washington State Department of Ecology, Sand and Gravel General Permit (WAG 50-1001). This permit includes the development of a Stormwater Pollution Prevention Plan (SWPPP). The plan requires the use of Best Management Practices throughout the duration of active mining. This may include: sediment ponds, riprap, infiltration, maintenance of access roads, and other BMPs.

14. Air

a. **What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial, wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

During mining there will be some dust and emissions from mining equipment. There will also be some dust and emissions associated with the concrete batch plant from both trucks and the batch plant.

b. **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

None known.

c. **Proposed measures to reduce or control emissions or other impacts to air, if any:**

Mined areas are scheduled for an accelerated reclamation plan. Revegetation will help stabilize soils, retain topsoil, and prevent dust from leaving the site. Watering may also be used to keep dust from leaving the site during extended dry periods.

15. Water

a. Surface

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes. The Cline irrigation ditch runs northerly along the western boundary of the permit area. It crosses onto the property and under Lotzgesell Road in the northwest corner of the site.

Matriotti Creek is located approximately 500 feet east of the eastern boundary of the permit area.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No work adjacent to Matriotti Creek is proposed. Some grading activities will occur within 200 feet of the irrigation ditch. The final grades will slope away from the irrigation ditch to collect stormwater inside the mining area.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

There will be no surface water withdrawals. Some on-site diversion of stormwater runoff will occur as a result of the mining activity. All Stormwater generated within the permit boundary will be infiltrated to groundwater and continue to provide recharge.

5) **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

No.

6) **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No.

b. **Ground**

1) **Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

Yes. Two wells serve this site. Withdrawals from groundwater will be limited to domestic supply for workers at the site, dust control as necessary, and truck washing facilities at the batch plant.

2) **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals, agricultural, etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

One on-site septic system serves up to three employees at the maintenance facility. A second septic system serves up to three employees at the concrete batch plant. Only domestic strength wastewater will be disposed of in the on-site septic systems.

c. **Water Runoff (including storm water):**

1) **Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

Runoff from this site is minimal due to the coarse nature of the soils. Runoff may occur during peak storm events and will contribute stormwater runoff to the site. Stormwater runoff in the mining areas will be collected as sheet flow and diverted to an infiltration area where infiltration to ground water is accomplished. Stormwater runoff and truck wash water at the concrete batch plant is collected in a series of catch basins. Stormwater overflow discharges to the eastern margin of Cays Road and ultimately joins Matriotti Creek.

2) **Could waste materials enter ground or surface waters? If so, generally describe.**

Yes. It is possible that a small amount of engine petroleum, concrete wash water, and cleaning wastes could enter the drainage system. Best Management Practices and appropriate operational procedures will help avoid this possibility. A Spill Plan is developed and is incorporated into the SWPPP to address a spill in the event it occurs.

d. **Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:**

Stormwater will be directed to an infiltration area to discharge to groundwater. Any maintenance of vehicles will be performed in accordance with Best Management Practices, daily inspections for fluid leaks from vehicles will be performed, and spill control kits will be stored on site. Off-site stormwater is prevented from entering the site by berms located around the perimeter of the mining area.

16. Plants

a. **Check or bold types of vegetation found on the site:**

__X__ deciduous tree: **alder**, **maple**, aspen, other madrona
__X__ evergreen tree: **fir**, **cedar**, pine, other
__X__ shrubs
__X__ grass
_____ pasture
_____ crop or grain
_____ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other: carex
_____ water plants: water lily, eelgrass, milfoil,
_____ other types of vegetation:

b. **What kind and amount of vegetation will be removed or altered?**

The total permit area is 57.0 acres. All vegetation has been disturbed during the life of the mine. The site was predominantly feral farmland prior to mining activities. The site will be reclaimed with upland grasses and other groundcovers in preparation for residential development, in accordance with the existing zoning.

c. **List threatened or endangered species known to be on or near the site.**

None known.

d. **Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:**

The site will be reclaimed per approved DNR Reclamation Plans and will be planted with predominantly groundcover after mining is complete.

17. **Animals**

a. **Bold any birds and animals which have been observed on or near the site or are known to be on or near the site:**

birds: **hawk**, heron, **eagle**, **songbirds**, other:
mammals: **deer**, bear, elk, beaver, other:_____
fish: bass, salmon, trout, herring, shellfish, other: ___

b. **List any threatened or endangered species known to be on or near the site.**

An eagle perch tree has been previously identified on the site by Clallam County (1995).

c. **Is the site part of a migration route? If so, explain.**

None known.

d. **Proposed measures to preserve or enhance wildlife, if any:**

Grasses and groundcover will provide a food source for deer and other small mammals.

18. **Energy and Natural Resources**

a. **What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy, manufacturing, etc.**

Electricity is used to power the maintenance facility and concrete batch plant. Machinery is operated by diesel engines. The batch conveyor is powered by electricity.

b. **Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.**

No.

c. **What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:**

None.

19. **Environmental Health**

a. **Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.**

Yes. Spills of diesel and petroleum products from the mining and trucking machinery could occur. See 15.c.2 above.

1) **Describe special emergency services that might be required.**

None.

2) **Proposed measures to reduce or control environmental health hazards, if any:**

A Spill Control Plan for Fred Hill Materials is part of the Sand and Gravel General Permit for the Washington State Department of Ecology. Weekly safety meetings keep staff and employees up to date on current safety practices.

b. **Noise**

1) **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

None.

2) **What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Equipment noise will be generated by mining and trucking equipment. The pit operates between the hours of 7:00 a.m.and 5:00 p.m., Monday thru Friday and shortened hours on Saturday. Trucks are loaded 24 hours a day. This noise will be expected throughout the life of the mine.

3) **Proposed measures to reduce or control noise impacts, if any:**

Mining will occur below existing grade. In addition, a berm has been constructed at the edge of mining activities. Earthen berms will mitigate the distribution of mining noise.

20. Land and Shoreline Use

a. **What is the current use of the site and adjacent properties?**

The current use of the site is an existing, operating sand and gravel mine and concrete batch plant. Adjacent uses include farmland, "natural," and residential properties.

Has the site been used for agriculture? If so, describe.

Yes. The site was used for agricultural purposes prior to the development of the sand and gravel mine.

b. Describe any structures on the site.

There are two large metal buildings that make up the maintenance facility in the central eastern portion of the parcel. There are several sheds and outbuildings in the immediate vicinity of the maintenance facility. A scale and scalehouse are located south of the maintenance facility.

A small office and concrete batch plant are located in the southeast corner of the site, bounded by Cays Road on the east and Hogback Road on the west. A truck washout facility is also located in the vicinity.

c. Will any structures be demolished? If so, what?

No. The structures will remain in support of the concrete batch plant and trucking operations after mining and reclamation are complete.

d. What is the current zoning classification of the site?

The site is zoned Rural Moderate (R-2). Residential use of 1 dwelling unit per 2.4 acres is allowed. The mining operation and concrete batch plant are existing, nonconforming uses in Clallam County.

e. What is the current comprehensive plan designation of the site?

The site is designated Rural with a Mining Overlay.

f. If applicable, what is the current Shoreline Master Program designation of the site?

Not Applicable.

g. Has any part of the site been classified an "environmentally sensitive" area? If so, specify.

Yes. Clallam County Critical Area Maps show a portion of the site is considered an "erosion hazard." Best Management Practices implemented at the mine help prevent erosion of soils on-site and off-site.

h. **Approximately how many people would reside or work in the completed project?**

Approximately 3-6 employees will work at the site.

i. **Approximately how many people would the completed project displace?**

None.

j. **Proposed measures to avoid or reduce displacement impacts, if any?**

None.

k. **Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:**

The proposal agrees with current zoning, Mineral overlay (existing use), and will be restored for appropriate residential use after mining completion.

21. **Housing**

a. **Approximately how many units would be provided, if any? Indicate whether high-, middle-, or low-income housing.**

None.

b. **Approximately how many units, if any, would be eliminated? Indicate whether high-, middle-, or low-income housing.**

None.

c. **Proposed measures to reduce or control housing impacts, if any:**

None.

22. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The existing batch plant is approximately 55 feet high.

b. What views in the immediate vicinity would be altered or obstructed?

There are no changes proposed that would affect the existing views.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

23. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Light is produced during working hours from truck headlights, outside building lighting, etc.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

Existing light or glare is not expected to be a safety hazard or interfere with views.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

24. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

A duck hunting club adjoins the site to the northwest.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

25. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None known.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None known.

c. Proposed measures to reduce or control impacts, if any:

None.

26. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The site is accessed off Cays Road. Access to the batch plant is at the intersection of Cays Road and Hogback Road. Access to the maintenance facility is north of the batch plant, also off Cays Road.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No. The nearest transit service is in the city of Sequim, approximately 4.5 miles southeast.

c. How many parking spaces would the completed project have? How many would the project eliminate?

Parking is provided for 6 employees and 3 visitors at the site. There is also parking for up to 10 trucks at the batch plant. No parking will be eliminated.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Approximately 50 trips per day are generated by the project.

g. **Proposed measures to reduce or control transportation impacts, if any:**

None.

27. **Public Services**

a. **Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.**

No.

b. **Proposed measure to reduce or control public service impacts, if any:**

None.

28. **Utilities**

a. **Bold utilities currently available at the site: electricity**, natural gas, water, **refuse service**, **telephone**, sanitary sewer, **septic system**, other.

b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

All utilities are existing and no construction is proposed. Utilities are provided by the following purveyors:

Electricity: Clallam County PUD
Water: Well on-site
Sanitary Sewer: On-site septic system
Refuse Service: Murray's Disposal
Telephone: Qwest

SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decisions.

Signature: Alonzo Lorenz

Date: 4/12/04